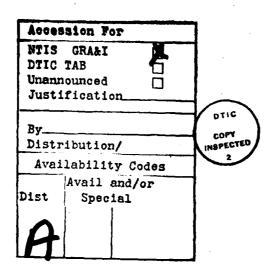


REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
	3. RECIPIENT'S CATALOG NUMBER
DR 1228 AR 11.5013	
4. TITLE (and Subtitle)	S. TYPE OF REPORT & PERIOD COVERED
19315B MLRS	
Missile Number VZ8-005,V-15-004	6. PERFORMING ORG. REPORT NUMBER
Round Number V236/AT2-11, V237/AT2-12	
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER(*)
White Sands Meteorological Team	DA Task 1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
US Army Electronics Research & Development Cmd	April 1982
Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico, 88002	29
White Sands Missile Range New Mexico 88002 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
US Army Electronics Research and Development Cmd	LINCL ACCTETED
Adelphi, MD 20783	UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)	
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different for	om Report)
17. DISTRIBUTION STATEMENT (ST. M. C. M. C	
Approved for public release; distribution unlimite	ed.
18. SUPPLEMENTARY NOTES	
·	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number	*)
1	
20. ABSTRACT (Configure on reverse side it recoverary and identify by block number)
Matageral ages agetawad day the lawreters of	46. 1021ED MIDE
Meteorological data gathered for the launching of Missile Number YZ8-005, Y15-004, Round Number YZ8-	THE 19310B MLKO, 6/AT2_11_ V237/AT2_12
are presented in tabular form.	OFFICE APPLICATE
1	
1	

	CONTENTS	AGE
INTRODU	JCT	. 1
DISCUSS	5 I ON	. 1
MAP		. 2
LAUNCH	AREA DIAGRAM	. 3
TABLES		
1.	Surface Observation Taken at 0813 & 0930 MST at LC-33	. 4
2.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, Taken at 0813 MST	. 5
3.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 0813 MST	. 5
4.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, Taken at 0930 MST	- 6
5.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 0930 MST	- 6
6.	Launch and Impact area Pilot-Ballon Measure Wind Data at 0813 MST	. 7
7.	Launch and Impact area Pilot-Balloon Measured Wind Data at 0930 MST	. 8
8.	Aiming and T-Time Computer Met Message	. 9
9.	WSD Significant Level Data at 0500 MST	- 10
10.	WSD Upper Air Data at 0500 MST	11
11.	WSD Mandatory Levels at 0500 MST	13
12.	LC-37 Significant Level Data at 0600 MST	14
13.	LC-37 Upper Air Data at 0600 MST	15
14.	LC-37 Mandatory Levels at 0600 MST	17
15.	WSD Significant Level Data at 0700 MST	18
16.	WSD Upper Air Data at 0700 MST	19
17.	WSD Mandatory Levels at 0700 MST	21
18.	LC-37 Significant Level Data at 0800 MST	22
10	1C-37 Unner Air Data at 0800 MST	23

TABLES CONT'D

20.	LC-37 Mandatory Levels at 0800 MST	25
21.	WSD Significant Level Data at 0930 MST	26
22.	WSD Upper Air Data at 0930 MST	27
23.	WSD Mandatory Levels at 0930 MST	29



INTRODUCTION

19315B MLRS, Missile Numbers VZ8-005 and V15-005, Round Numbers V-236/AT-11 and V-237/AT-12, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0813:30 and 0930:23 MST, 12 April 1982. The scheduled launch times were 0800 and 0900 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

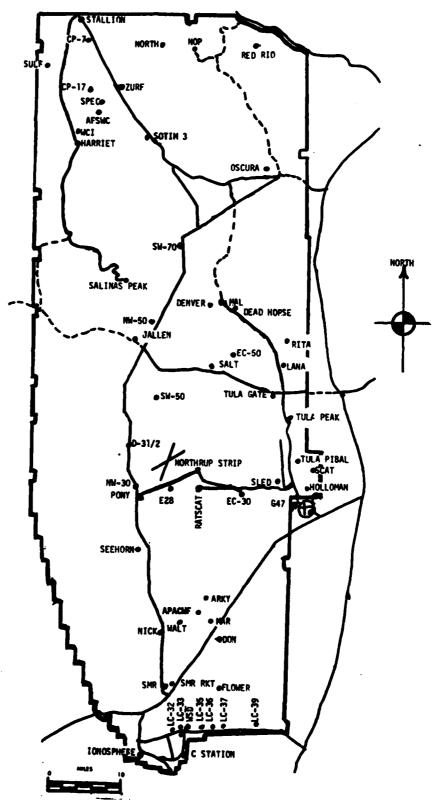
- a. Surface
- (1) Standard surface observations to include pressure, temperature (O C), relative humidity, dew point (O C), density (gm/m 3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from Pilot-Ballon observations at:

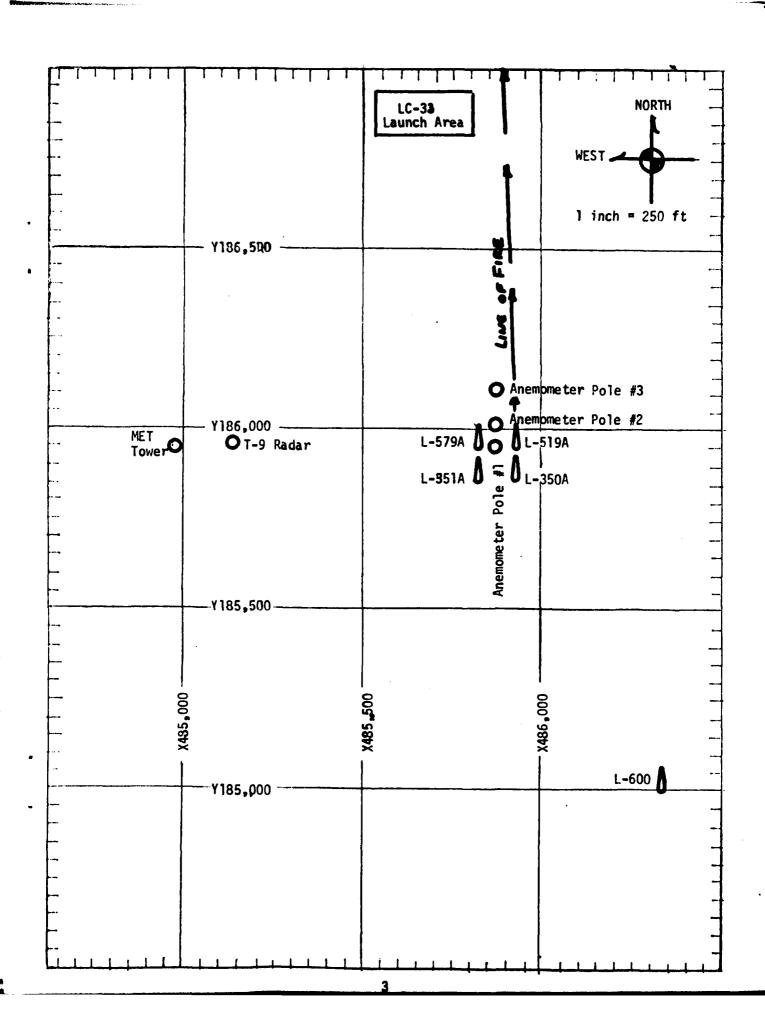
WSD 2km NICK 2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

	AND T	
WSD	0500	MST
LC-37	0600	MST
WSD	0700	MST
LC-37	0800	MST
WSD	0930	MST

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1	. !							STATIC'I LC-33 E & A	3 E & A		
DATE 12	APR	82 VEAR	1				^	X= 484,982,64	, ,	Y= 185,957,73 H= 3995,00	= 3995.00
TIKE M S I	PRESSURE TE	OE TENPERATURE OF	oc Oc	DEW POINT OF	21:17 9c	PELATIVE HUMIDITY %	E#17/25	DIRECTION SPEED degs In kts	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0813	881.1		24.0		3.5	26	1028	310	60		40
0830	881.2		25.3		3.8	25	1025	300	14		40
							-				

	REMARKS		·		
	136		H ALODS	H ALQDS	
-	a	HGT			
d LAYER	ALT TYPE HGT				
	1 3r	A:T			
		HGT			
כו טווטצ	d LAYEF	AMT TYPE HGT		-	
	2n	APIT			
	c.:	HGT	6 55 25 000	cs 25,000	
	LAYER	TYPE	S	SS	
	15	AMT TYPE HGT	ی	9	
	BSTRUCTIONS	TO VISIBILITY			

PSYCHROMETRIC COMPUTATION

101	0630	25.3	13,0	12.3	3.8	25
ונ	0313	24.0	12.4	11.6	3.5	26
POTCH FULL CONTROLL TO TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	TINE: MST	DRY BULD TEMP.	WET BULB TEMP.	WET BULB DEPR.	DEW POINT	SELATIVE HHETO.

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4.29 8.90 4		POLE #2 X485,874 Y186,012 H4033.5 53.0 ft	4.93 2.00 7		POLE #3 X485,87 Y186,110 H4063.92 83.6 ft	7.29 5.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DE G	SPEED KTS	T-TIME SEC	DI R DE G	SPEED KTS
T-30	350	01	T-30	355	03	T-30	010	05
T-20	333	01	T-20	010	03	T-20	360	04
T-10	321	04	T-10	354	03	T-10	360	05
т0.0	336	03	T0.0	034	03	T0.0	004	07
T+10	339	04	T+10	022	03	T+10	360	07

TABLE	3	_LG-33 METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED	WINDS	(202	FT	TOWER)
-------	---	-----------------------	-------	------------	----------	-------	------	----	--------

LEVEL #1, 1 X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64,	FEET , Y185,057.7	3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	317	06	T-30	315	10
Т-20	309	06	T-20	328	09
T-10	317	09	T-10	318	09
то.о	330	08	T0.0	303	10
Τ+10	291	09	T+10	313	12

LEVEL #3, 10 X484,982.64,	2 FEET Y185,057.73,	H3983.00 (base)	LEVEL #4, 200 X484,982, Y10	2 FEET 85,057.73, H39	983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
Τ-30	515	10	T -30	317	10
T-20	320	09	T -20	309	10
T-10	308	10	T-10	302	10
T0.0	300	11	T0.0	304	11
T+10	300	12	T +10	313	11

		_	
۲A	Βl	.E	L

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4 .29 8.90 4		POLE #2 X485,874 Y186,012 H4033.57 53.0 ft	1.93 2.00 7		POLE # X485,87 Y186,110 H4063.92 83.6 ft	7.29 5.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DEG	SPEED KTS
T-30	270	13	T - 30	291	11	T-30	289	14
T-20	270	10	T-20	281	10	T-20	282	16
T-10	273	10	T-10	277	10	T-10	285	11
T0.0	252	15	T0.0	281	10	T0.0	267	13
T+10	262	15	T+10	282	15	T+10	304	11

TABLE	5	LC-33 METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED	WINDS	(202	FT	TOWER)
-------	---	----------------------	-------	------------	----------	-------	------	----	--------

LEVEL #1, X484,982.6		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	295	12	T-30	280	17
T -20	288	16	T-20	304	19
τ-10	315	10	T-10	296	13
T0.0	290	12	T0.0	288	18
T+10	295	12	T+10	294	16

LEVEL #3, 10 X484,982.64	02 FEET 1185,057.7	73, H3983.00 (base)	LEVEL #4, 20 X484,982, Y1		3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	273	20	T-30	280	20
T-20	284	20	T-20	276	19
T- 10	279	11	T-10	282	22
T0.0	285	21	T0.0	282	20
T+10	288	17	T+10	258	17

HANT A MAY HAND AND TO THE STATE OF

12 April 1982

SITE: WSD

TIPE: 0813 MST

MSTM COMMONNAMES:

Y= **488,580.00**

¥= 185,045.00

H= **3,989.00**

SITE: NICK

TIME: 0813 MST

JATT COMMITTEE .:

/= 470,734.56

Y = 255,775.64

H= 4,126.57

LAYER MIDPOINT LAYER MIDPOINT	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDROIMT METERS ACT	DIRECTION	SPEED KENTS
adult of	270	06	SUPFACE	285	04
160	320	14	750	280	09
210	320	16	210	278	10
27) .	312	16	270	276	10
3 3 +	305	17	337	273	11
300	302	18	300	273	11
5.17	298	18	$\{\phi_{i}\}$	276	12
+ 51	281	18	, (₃)	280	13
ن 1.1	278	19	603	282	14
$\alpha_{U(i)}$	287	23	950	281	13
115.3	289	19	1150	Lost in	Sun
135.1	267	13	1350		
15%)	265	16	1550		
1750	287	26	1750		
2.600	295	33-	2000		

All Data obtained from Single TheodoliteTracked Pilot-Ballon observations.

T-TIME PILOT-BALLOON MEASURED WIND DATA DATE 12 April 1982

TE: WSD

1€: 0930

T' COORDINATES:

488,580.00

185,045.00

3,989.00

SITE: NICK

TIME: 0930 MST

WSTM COORDINATES:

 $\chi = 470,734.56$

Y = 255,775.64

H= 4,126.57

YER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	260	16	SURFACE	260	04
150	280	15	150	261	20
210	285	15	210	261	23
270	285	15	270	261	23
33 0	286	16	330	262	23
390	286	15	390	262	20
500	286	14	500	262	13
650	279	13	- 650	278	80
800	277	16	800	313	05
950	279	20	950	307	05
1150	285	23	1150	288	10
1350	290	29	1350	301	18
1550	289	32	1550	302	24
1750	290	31	1750	300	29
2000	294	36	2000	287	34

All Data obtained from Single Theodolite Tracked Pilot-Balloon observations

AMING AND T-TIME COMPUTER MET MESSAGES

WSD 0500 METCM1324 121200122	06	LC-37 06 METCM1324 121300124		WSD 0700 METCM13240 1214001228	064
00480008	29320880	00480001	28910879	00480006	2938088 0
01519014	29450869	01519010	29240869	01499011	29510870
02521015	29280845	02517013	29060844	02501012	29350845
03559017	28980806	03562015	28840805	03519011	29050807
04568025	28660760	04531018	28580759	04504015	28620760
05550033	28310715	05517020	28210714	05523029	28250716
06520032	27980673	06516034	27840672	06516043	27990674
07489050	27740634	07485046	27630632	07485048	27800634
08471055	17/100596	08475051	27380594	08465051	27540596
09467052	27040559	09464061	27030558	09467055	27160560
10464052	26660525	10461055	26640524	10467057	26770526
11467054	26270492	11467059	26250491	11468058	26390493
12467057	25750446	12473062	25760445	12477057	25850447

WSD 0930 MST
METCM1324064 121650122881
00462018 29980881
01487018 29880871
02514015 20650846
03491020 29260808
04497019 28770762
05527025 28280718
06529040 27860675
07487049 27800635
08464054 27680597
09457052 27360562
10457050 26910527
11458063 26450495
12459066 25850449

STATION ALTITUDE 3. 12 APR. 82 ASCENSION NO. 149	969.0 0:00 9.00	O FEET MSL HRS MST PRESSURE GEOMETRIC ALTITUDE ILLIBARS MSL FEET	SIGNIFIC WHI TEMPE AIR DEGREES	SIGNIFICANT LEVEL DATA 1020020149 WHITE SANDS SIE 9 TEMPERATURE REI AIR DEMPOINI PE DEGREES CENTICHADE	ATA REL.HUM. PEKCENT	∪ΕΟDLTIC COURDINATES 32.40043 LAT DEG 106.37033 LON DEG
	879.6	3989.0	19.3	•	29.0	
	867.8	4371.4	21.4	1.6	27.0	
	850.0	4958.2	19.3	• Œ	29.0	
	619.6	5980.2	16.2	9	31.0	
	800.8	6627.4	15.8	۵.	32.0	
		10327.0	A. 1	-6.0	პი•0	
		12480.2	4.1	-13.2	27.0	
		13209.5	4.1	-15.1	23.0	
	577.6	15455.8	-1.7	-13.5	40.0	
		15921.2	-2.7	-17.1	32.0	
		16226•2	-2.7	-14.9	25.0	
		19178.5	-0.B	-21.1	39.0	
		4.06505	-12.9	-22.1	40.0	
		20796•6	-13.4	-22.8	45.0	
		21R25.4	-15.4	-21.2	01.0	
	442.2	22759+2	-16.5	-20.2	73.0	
		24713.4	+22.4	-25.4	76.0	
		27000•5	-26.8	-30.0	74.0	
		28801.2	-31.8	-35.1	72.0	
		29712.5	-34.4	-36.5	66.0	
		M1 11 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	1,00		٠, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١,	

1.000102			597.4	453.3	63.8	-42.3	-38.0	306.0	21000.0
1.000104			599.2	460.6	64.6	8.04-	-36.6	312.8	3u500.0
1.000106	58.3	C-PG-2	0.109	468.0	65.5	-39.3	-35.2	319.7	Ju000.0
1.000107	62.6	259.4	602.8	475.5	67.4	-37.7	-33.8	320.8	29500.0
1.000109	65.6	259.5	604-6	483.0	70.7	-35.9	-32.4	333.9	29000.0
1.000111	68.6	259.9	606-4	490.5	72.3	-34 - 3	-31.0	341.1	2500.0
1.000113	67.5	260.0	1.809	2.864	72.9	-32.9	-29.6	2.845	25000.0
1.000115	66.2	200.1	609.9	506.0	73.4	-31.4	-28.2	356.0	27500•0
1.000118	64.1	200.2	611.6	513.9	74.0	-30-0	-26.A	363.6	27000.0
1.000120	62.0	260.4	612.8	522.7	74.4	-29.0	-25-8	371.3	20500.0
1.000122	60.6	260.7	614.0	531.6	74.9	-28.0	-24.9	379.1	20000.0
1.000124	59.4	261-1	615.2	540.7	75.3	-27.0	-23.9	387.1	25500.0
1.000127	58.5	261.4	616-4	549.9	75.7	-26.0	-23.0	395.2	25000.0
1.000129	57.7	201.7	617.8	559.0	75.7	-25.0	-21.9	400.5	24500.0
1.000132	56.7	6.192	619.3	567.8	75.1	-23.9	-20.7	8.11%	24000.0
1.000134	56.0	195.0	620.7	576.7	74.5	-22.8	-19.5	420.3	23500.0
REFRACTION	KNOTS	DEGREES (IN)	KNOTS	METER		CENTIGRADE	DEGKEES	MILLIUAKS	MSC FEET
	SPEED	DIRECTION	COUND	OTGUSTC	PERCENT	DEWPOINT	AIX		AL 11 TUDE
INDEX	A	WIND DATA	SPEEU OF	DENSITY	REL.HUM.	TEMPERATURE .	TEM	PRESSURE	GEUMETRIC
DETIC COONDINATES 32.40043 LAT DEG 106.37033 LON DEG	v£0DET1 32. 106.		DS C. LI	UPPER AIK DATA 1020020149 WHITE SANDS TABLE 10 CONT')	1,	MST ET MSL	050n HRS MST	jDr 3ċ	STATION ALTITU 12 APR. 82 ASCENSION NO.

PRESSURE G	GE OPOTENT I AL	` >	TEMPERATURE	REL.HUM.		ATA
MILLIBARS	FEET	DEGREES.	CENTIGRAVE	FACTAL	DEGREES (TN)	KNOTS
A50 • 0	4955.	19.3	•	29.		1
800.0	6650.	15.7	9	32.	316.3	17.8
750.n	8435.	12.0	-3.3	34.		28
700.0	10317.	8.1	-6.0	36.		30
ॐ50∙0	12310.	**	-12.6	29.		43.
0•00ن	14438.	•9	-13.8	32.		54.
550•0	16710.	-3.9	-19.9	27.		52
500.0	19151.	-9.A	-21.1	39.		53
450.0	21792.	-15.4	-21.2	•19		55
400.0	24672.	-22.4	-25.4	76.		94
350.0	27851.	-29•3	-32.6	73.		67.
300·0	31389.	-39.3	-43.6	63.		

APR. HZ	ATION ALTITUDE 4051.37 FEET MSL APR. H2 0600 HRS MST NEMSION NO. 22	۲	TABL	STONTFTCANT LEVEL DATA 1020180UZZ LC-37 TABLE 12	ATA	VEODETIC COONDINATES 32.40175 LAT LEG 106.31232 LON LEG
	PRESSURE	PRESSURE GEOMETRIC ALTITULE ALTITULE	TEMPE AIR DFGKEES	TEMPERATURE AIR DEWPUINI DEGREES CENTIGRALE	REL.HUM. PERCENT	
	879.2	4.1504	15.0	• •	37.0	
	873.0	9.6464	19.4	4.7	36.0	
	65 0. 0	4099.9	16.6	1.9	37.0	
	744.2	6.81.9	11.2	7.1-	42.0	
		10348.6	6.7	-J.8	47.0	
		11160.0	4.6	-4.9	50.0	
	652.0	12253.4	3.8	-7.6	43.0	
		12615.7	, o	-7.5	75 50 00	
	-	14478.9	• 7	-11-0	41.0	
	574.0	15625.4	-1.9	-19.3	25.0	
	549.2	16775.5	-4-0	-21.5	24.0	
		19183.7	-9.9	-21.5	38.0	
		20352•1	-12.3	-24.3	J6.0	
	469.8	20755.2	-12.9	-25.4	34.0	
		21566.6	-14.7	-20.7	60.0	
		21985.9	-15.6	-24.5	40.0	
	432.6	22807.6	-17.2	-22.9	0.19	
		24075.4	-20.6	-25.6	0.40	
	400.0	24722.2	-22.2	-27.5	b2•0	
	356.2	27491.3	-2A.9	-33.2	06.0	

1.000133	59.5	264.0	621.2	576.1	62.6	-24.4	-19.1	420.6	23500.0
1.000136	59.4	6.407	622.9	584.9	61.5	-23.3	-17-7	429.2	23000.0
1.000158	59.8	•	624.2	504.3	55.4	-23.4	-16.6	430.0	22500.0
1.000139	60.1	265.0	625.4	604.2	46.3	-24.5	-15.6	6.044	22000.0
1.000143	60.0	205.0	u26•8	613.7	57.9	-21.0	-14-6	450.0	21500.0
1.000144	59.8	265.2	620.1	623.6	41.8	-23.6	-13.4	465.2	0.00012
1.000146	÷	204.0		633.9	35.3	-24.7	-12.5	474.6	20500.0
1.000149	57.7	262.9	630.3	644.3	36.6	-23.4	-11-6	1.484	20000.0
1.000151	÷	261.9	631.6	654.5	37.5	-22.2	-10.5	95.	19500.0
1.000154	56.2	261.2	632.9	664.7	36.9	-21.4	-9.5	503.6	19000.0
1.000156	Š	201.1	034.4	674.7	34.0	2	-8.2	513.5	10500.0
1.000159	Ġ.	260.7	635.8	8.48d	31.1	-21.2	-7.0	523.6	18000.0
1.000161	57.0	260.0	637.3	695.1	28.2	-21.2	-5.8	533.9	17500-0
1.000163	ě	260.5	636.7	705.6	25.3	-21.4	-4.6	# * * * * * * * * * * * * * * * * * * *	17000.0
1.000166	9	261.7		716.5	24.2	21	-3.5	555.0	10500.0
1.000169	59.2	263.4	•	727.9	24.7	-20.0	-2.6	565.0	10000.0
1.000172	ċ	264.4	642.3	739.2	26.7	-1A-2	-1.6	576.7	15500.0
1.000177	58.4	203.1	643.7	750.1	33.7	-14-5	1.5	587.8	15000-0
1.000163	ŏ	263.3	645.2	761.0	40.7	-11.2	.7	599.1	14500.0
1.000165	ŭ	20402	4.940	772.4	30.3	-13.8	1.8	610.5	0.00047
1.000165	49.2	268+5	647.2	785.2	28.8	-13.8	2.5	622.2	13500.0
1.000193	45.1	275.4	4.7.4	709.6	39.7	-9.8	2.6	634.0	13090.0
1.000199		218.7	0.040	813.3	16.4	-7.4	3.0	646.0	12500.0
1.000202	ě	283.9	2.649	825.7	9.44	-7.0	0 • •	654-2	12000-0
1.000207	ŭ	261.4	1.649	•	47.8	-5.7	t.	670-6	11500.0
1.000211	ŏ	290.7	650.5	853.6	4.64	-t-7	5.0	683.3	0.00011
1.000215	ÿ	291.5	652-1	865.6	47.6	-t-0	6.3	695.1	10500.0
1.000219	21.6	291.9	653.6	877.4	46.0	-3.2	7.6	709.0	10000.0
1.000222	9	291.1	655•3	889.3	44.5	-2.5	9.0	724.2	0.00gk
1.000226	8	292.2	656.9	901.4	43.0	-1.7	10.3	735.6	0.000¢
1.000230	18.2	295.5	8.85g	•	41.8		•	749.1	C • 00cu
1.000234	17.9	300.2	659•0	•	1.1	••6	12.2	762.7	0.00·0
1.000238		306.5	659.9	942.9	40.4	2	12.9	770.6	7500.0
•	17.0	310.6	660.8	957.6	39.7	•2	13.7	790.8	7000.5
1.000246	15.4	312.1	9.199	972.0	39.0	.7	14.4	805.2	n500·0
1.000250	13.4	313.1	5.299	987.7	38.4	:	15.1	6.4TB	5000·0
1.000254	10.1	312.2	663.3	1003.1	37.7	1.5	15.9	834.8	5500.0
•	6.9	310.5	664.2	1018.8	37.0	1.9	16.6	850.0	900
1.000265	3.7	305.1	4.999	1030.0	37.7	3.8	10.5	865.3	•
1.000265	1.0	270.0	662.2	1060.0	37.0	•	15.0	879.2	4051.4
REFRACTION	780	DEGREESTINA	KNOTS	אַר ר ר ת		CENTIGRADE	DEGREES	MILLIDAKS	MSL FEET
	K 10 10 10 10 10 10 10 10 10 10 10 10 10	CINCLINA	NOON C	CODIC CODIC	PACENT	OF MY OF NA			ACITION
מי א	֡֞֞֜֞֜֞֞֞֞֜֞֞֞֞֞֜֞֞֞֜֞֞֞֜֞֞֞֜֞֞֜֞֜֞֜֞֜֞	DIDLETTON ON I	SPEED OF		REC. TOM.	TEMPERATURE .	(t.M2	PRESSURE	GEOMETRIC
14.54	7			<		1	•		
106.31232 LON DEG	106.			TABLE 13				NO. 22	ASCENSION NO.
32.40175 LAT DEG	32.			LC-37		MST	0600 HRS MST	ı	2 APR.
C COOKDINATES	vEODLTIC		8	102016002		FEET MSL	4051.37 FEE	ALTITUDE 40	STAILON AL
			DATA	UPPER AIK					

1-000117			610-5	515.9	65.3	-32-2	-27.7	363.6	27000.0
1.000122			613.5	532.6	63.A	-30 • 1	-25.3	374.2	25000.0
1.000124	62.3	259.5	615.0	541.3	63.1	-29.1	-24-1	387.2	25500.0
1.000126	60.9	260.4	616.5	550.0	62.4	-28.0	-22.9	395.4	25000.0
1.000129	60.3	201.0	616.0	550.6	62.7	-26.8	-21.7	403.7	24500.0
1.000131	59.7	263.1	b19·6	567.5	63.8	-25.4	-20•4	412.1	24000.0
INLEX OF REFRACTION	SPEED KNOTS	WIND DATA DIRECTION SPEED REGREES(IN) KNOTS	SPEED OF	DENSITY GM/CUBIC METER	REL.HIM.	PRESSURE TEMPERATURE REL.HIM. AIR DEMPOINT PERCENT MILLIDARS DEGREES CENTIGRADE	TEMF A I K	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIDARS	SEVWETRIC
DETIC COUNDINATES 32.40175 LAI DEG 106.31232 LON DEG	₩EODETI 32.0 106.		Q'TN	1020160022 LC-37 TABLE 13 CONT'D		MST MSL	51.37 FEE 360n HRS	STATION ALTITUDE 4051-37 FEET MSL 12 APR- 62 0600 HRS MST ASCENSIUM NO. 22	TATION AT
			ALM	UPPER AIK LAIA	_				

STATION ALTITUDE 4051+37 FEET MSE 12 APR+ 82 0600 HRS MST ASCENSION NO+ 22

S2.40175 LAT DEG 106-31232 LON DEG

									WILL	PRES
0.000	2000	550.0	600.0	650.0	700.0	750.0	800.0	850.0	MILLIPARS	PRESSURE (
24681.	21707	16716.	. 4444	12322.	10338.	8461.	66A2•	4976.	FEET	GE OPOTENTIAL
-22.2	15.3	3.9	.7	J. 5	6.7	11.5	14.1	16.6	DEGREES	418 131
-27.5	03.0	-21.5	-11.1	-7.5	-3.0	-1.0	÷	1.9	CENTIGRADE	TEMPERATURE
62.	J (24	•1•	• 44	47.	#2·	39.	-		KEL . HUM.
		261.2						310.3	DEGREES(IN) KNO	MIND U
60.5	70.0 10.4	56.9	56.3	40.6	23.7	18.1	16.0	6.9	KNOTS	SPEED

12 APR. 82 0700 HRS MST ASCENSION NO. 150	STATION ALTITUDE 3989.00 FEET MSL
WHITE SANDS TABLE 15	SIGNIFICANT LEVLL DATA 1020020150
32.44043 LAT DEG 106.3/033 LON DEG	WEODETIC COORDINATES

STATION ALTI 12 APR. U2 ASCENSION NO	TUDE 39	3989.00 FEET M 0700 HKS MST 0	4ST ASL		UPPER AIK DAT 1020020156 WHITE SANUS TABLE 16	DATA Su DS		ĠEODŁTI: 32• 106•	DLTIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	
GEOMETRIC ALTITUDE MSL FEET	PRESJUKE MILLI _D ARS	TEMPE AIR DEGREES (TEMPERATURE . R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENŢ	DENSITY GM/CUBIC METER	STOND SUUDS KHOOS KHOOS	WIND DA DIRECTION DEGREES(IN)	SPEED KNOTS	INUEX OF REFRACTION	
3989.0	86.	•	•	31.0	1043.7	667.7	270-0	6.0	÷	
4000.0	874.8	19.8	2.1	30.9	1043.1	667.8	•	6.1	00026	
4500.0	864.4	21.2	1.8	27.7	1020.0	•	2//-1	7.5	20	
5000.0	C.640	14.0	•	27.7	6.700T	66/11	0.107	10.7	38	
000000	814.5	17.7	1 : 6 n	28.7	978.9	665°	287.8	11.6	1.000244	
p500•0	÷.	•	•	30.1	965.7	663.8	291.5	_	2	
•	790.5	'n		31.5	952.7	4.799	293.9	-	00	
/500·0	762.5	10.9	-2.7	32.9	927.	650.9	も・・ ・ も か い い	12.0	1-000233	
8500.0	748.9	11.3	ا بن	35.7	914.8	657.9	293.9	.	: :	
9000.0	735.5	10.1	-3.9	37.0	902.5	650.4	293.0	R3	1.000223	
9500.0 0.00001	708.9	8.2	ր (չ (չ, գ,	30.5	889.1	655.3	6.162 7.562	26.9 31.1	1.000215	
10500-0	690.0	7.2	, , , ,	39.2	862.8 862.8	653-1	290•7			
1500.		6.2	-8·6	33.6	834.9	651.7	286-0		à	
12000-0	655.3	. U	9.0	32.7	902.4	0-150	277.11	Ţ	1.00019/	
13000.0	634.2	\$ 4 5	-12-8	27.1	794.6	0.449	272.4	46.7	1.000168	
13500.0	624.5	4.1	-16.2	20.9	781.2	1.649	268.4	è	_	
0.00041	501.4 610.9	\) (J)	-17.7 -18.5	19.6	769.0 757.4	P#4.1	265.1	50.2 2.0	1.000179	
15000-0	584-0	1.1	-1A-8	20.7	746.1	545.5	261.0	-	~	
15500.0	570.8	0	-10-2	21.8	735.1	644.1	261.0	Ň	1.000171	
16500.0	555. Y	2.3	-20-1	0 4.0 7.2 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	713.5	542.7	262.4	56.5 5	1.000168	
17000.0	2+++5	-3.5		25.1	703.0	640.0	203.0	•	1.000163	
1/500.0	534.2	-4.7	-21.1	26.2	692.6	630-6	•	•	1.000160	
18500.0	514.1	-7•0	-22.2	28.4	672.4	635.4	203.2		1.000155	
1900000	504-3	-8-2		29.5	•	634.4	•		•	
•	10.40	-9.3	-23.4	30.0	•	633.0	•	•	2	
20000.0	477.0	-10.4	124.0	31.7	0 # N • 4	631.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	
1000	465.0	-12.7	-25-3	33.8	622.7	0.629	266.7	- 4	1.000143	
1500.	450.7	-13.8	-25.9	34.9	613.1	627.6	207.5	•	1.000141	
-000	7.744	=	-26.6	36.0	603.6	620.2	•		1.000138	
25000.0	#30·1	-16.9	-23.1	50.3	294.2 294.2	624.9	267.4	58.7	1.000135	
	-	1		()		010	•			

0.0001r 0.0001r 0.0050r 0.0000r	28000.0 29000.0 29500.0	25500.0 25500.0 25500.0 27000.0		STATION ALTITUDE 3989.NO FE _e i mSL 12 APR. 02 0700 HRS MST ASCENSION NO. 150
320.7 313.9 307.2 300.7	342.0 342.0 327.6	580.3 580.3 572.5 364.7	· · · · ·	111UDE 398 0 NO. 150
-34.7 -34.7 -36.0 -37.3	-28.5 -31.0		♥' =	y89∙n0 FE¦T MS 0700 HRS MST
-43.0 -43.0	-34.8 -37.5	129.8 130.8	TEMPERATURE LES CENTIGRADE -23.8 -8 -25.2 -1 -26.8	MST I MSL
47.1 48.1 40.1	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	REL.HUM. PERCENT 58.9 57.2 55.2	- -
44.0 451.2 458.6 458.6	497.2 489.2 481.3	539.2 530.6 522.1 513.7 505.4	DENSITY GM/CUHIC METER 574.5 555.1 548.1	UPPER AIR DATA 1020020150 WHITE SANDS TABLE 16 CONT'D
901.6 901.6			SPEEU OF 50UND NIVOTS 622-8 621-4 619-9	DATA
279	2500.7 259.4	262.7 262.1 261.7 261.5	WIND DATA DIRECTION SI DEGREES(IN) K 266.5 205.4 264.2 263.4	
9		65.0 62.6 65.2	NOT PEE	≎EODET1(32•(106•.
1.000103	1.000113 1.000111 1.000109 1.000107	1.000123 1.000121 1.000119 1.000117 1.000115	INUEX GH REFRACTION 1.000133 1.000128 1.000126	DETIC COORDINATES 32.40043 LAT DEG

3	STATION ALIITUDE 3989.00 FE _E T MSL 12 APR. 82 0700 HRS MST ASCENSION NO. 150
PRESSURE GEOPOTENTIAL MILLIAARS FEET 850.0 4972. 800.0 6673. 750.0 8457. 700.0 10334. 650.0 12328. 650.0 16746. 550.0 19196. 450.0 21846. 400.0 24740. 350.0 31492.	3y89.n0 FEE 07ng HRS
FEET 4972. 6673. 66473. 10334. 112328. 114462. 116746. 119196. 21846. 24740. 27932. 31492.	T MSL
TEMPERATURE AIR DEWPOIN) DEGREES CENTIGRAUL 19.8 -1.3 11.4 -3.3 7.5 -5.5 5.0 -9.3 7.5 -9.3 7.5 -9.3 7.5 -9.3 7.6 -2.9 -20.3 -2.9 -20.3 -8.7 -23.1 -14.6 -27.6 -28.4 -44.5	3 2 2
·	MANDATORY LEVELS 1020020150 WHITE SANDS TABLE 17
PERCENT 27. 31. 36. 39. 39. 35. 20. 25. 26. 27. 47.	ر ر آر
#INU DATA DIRECTION S DEGREES(TN) K 281.6 9 292.8 10 293.9 17 293.9 17 261.0 55.2 263.2 55.2 263.9 55.2 263.9 55.2 263.9 55.2 263.9 55.2 263.9 55.2 263.9 55.2	
JATA SPEED 9.0 10.9 17.4 13.9 45.6 57.9 55.4	GEODETIC COOMDINATES 32.40043 LAT DEG 106.37033 LON DEG

	430.2 230					591.8 148				778.8 74		850.0 50	8 79. 7 40	MILLIBARS MSL FEET	AC	PRESSURL GE	STATION ALTITUDL 4051.37 FEET MSL 12 APR. 62 0800 HRS MSI ASCLNSION NO. 23
28298.1	23041.0	22190.2	21340.9	19264.9	16453•8	8.468h1	14131.5	11854.9	10412.8	7482.4	6420.9	5028.6	4051-4	L FEET	300111	OMETHIC	
-28.9	-16.4	-15.1	-13.2	8.3	-2.9	'n	•0	5.7	7.9	15.1	16.9	20.4	23.1	DEGREES	AIR	Ď	102018 LC-37 TABLE 18
-38.7	-23.7	-20.5	-24.5	-20.7	-24.5	-21.3	-0.9	-10.1	-2-1		1.0	3.2	•9	DEGREES CENTIGRADE	DEWPOINT	TEMPERATUILE	1020180023 LC-37 TABLE 18
38.0	54.0	63.0	38.0	21.0	17.0	18.0	51.0	31.0	49.0	J5.0	34.0	32.0	23.0		PERCENT	KEL.HUM.	
																	GEODETIC COOMDINATES 32.40175 LAT DEG 106.31232 LON DEG

1.000133	64.9	204.0	•	575.1	53.3	-24.8	-17.6	422.2	23500•0
1.000135	65.7	264.6	0420		53.5	-23.6	•	•	3000.
•	65.2	0.492	b25√5	594.1	59.4	-21.7	-15.6	434.7	22500-9
1.000141	63.0	204.0	•	604.0	57.4	-21.2	-14.7	440.6	22000·n
1.000142	60.9	264.5	627.9	613.7	42.7	-23.5	-13.6	45/.7	21500.0
1.000143	60.1	263.8	•	625	35.2	-24.6	-12.4	466.8	0.00012
1.000145	59.4	203.2	630.7	632,9	31.1	-24.9	-11.2	470.2	20500.0
1.000147	58.0	202.6	•	642.7	27.0	-25.4	-10.0	485.7	0000.
41000	56.5	4-19	633.5	652.6	N	-26.2	-8.9	h.c6t	•
•	55.5	\$00°4	•	662.8	•	-26+4	٠	505.2	19000.0
1.000154	55.9	259.7	•	673.4	19.9	-26.0	۰	515.1	•
•	57.2	260•3	637-1	684.1	19.2	-25•6	-5.9	525 • 1	18000.0
•	58.4	202.2	•	695.0	18.5	-25-2	-4.9	535·4	•
1.000162	59.6	203.4	639.4	•	17.8	-24.8	-3.9	545.9	•
_	58.2	263.0	640.5	717.3	17.1	-24 • 5	-3.0	550•6	10500.0
1.000167	55.1	201.7	641.7	•	17.3	-23.5	-2.0	56/.3	•
-	51.7	•	•	739.6	17.6	-22•5	•	570.3	•
-	48.6	•	644.1	751.2	17.9	-21.5	0	4.689	•
_	46.5	205.7	4.440	764.8	35.1	-13.5	• 1	600.7	٠
•	1. 1	•	•	778.4	49.8	-A.9	• 3	612.2	•
1.000192	43.7	ر73· <i>خ</i>	640.3	789.5	45.5	-A.9	1.6	623.8	13500.0
1.000194	43.6	277.7	647.8	800.9	41.1	-9•1	2.8	635.7	•
1.000196	43.7	1.292	•	812.5	36.7	4.6-	4.1	647.7	•
1.000148	8.44	285.7	650.7	824.2	32.3	-0.9	5.3	660.0	•
1.000203	46.2	•	8.159	830.8	35.4	-7.9	6•2	672.4	•
1.000209	47.7	292.2	652•8	849.7	41.7	-5-1	7.0	6.446	11000.0
1.000217	46.7	293.7	653.9	862.9	•	-2.6	7.8	69/.7	•
1.000221	45.7	295.2	655.2	875.1	47.0	-1.8	8.9	710.6	10000.0
•	43.7	295.9	656.7	887.3	9.44	-1 • 3	10.1	723.7	9500.0
1.000227	39.9	295.0	658-1	899.7	42.3	-1.0	11.4	730.9	9000.5
1.000230	36.3	293.7	659•5	912.2	•	7	12.6	750.5	8500.0
1.000233	33.0	4.162	•	•	•	†	Ş	764.3	0.00.0
1.000236	30.0	208.5	5	•	•	••2	15.1	770.3	500.
•	27.3	283.5	663.4	952.1	34.5	•3	15.9	792.4	
•	25.4	279.6	664.3	966.4	34.1	• 9	•	806.7	6500•0
1.000249	24.1	277.2	65.	979.6	33.4	1.6	18.0	821.2	000.
•	19.9	276.2	667.2	992.7	32.7	2.4	19.2	8 3 5.9	5500.0
	15.1	275.4	668.7	1006.0	31.7	3.1	20•5	850·9	0.000.0
•	10.3	2/3./	670.2	1019.4	•	2.1	21.9	865.9	4500.0
1.000258	6.0	270-0	-	1031.6	Ų	• 9	Ü	879.7	4.150.4
RETRACTION	SION	PEGREES	NO TO	3 Fr - Fr X		CENTIGRADE	DEGKEES	MILLIDAKS	MSL FEET
9	SPEED	DIRECTION	SOUND	10	PERCENT	DEWPOINT	AIR		_
INUEX	· >	# IND DAT	SPEEU OF	10	REL.HUM.	TEMPERATURE .	TEMP	PRESSURE	GEOMETRIC
								ı	

1.000130 1.000128 1.000126 1.000125 1.000121 1.000119 1.000117 1.000115	63.9 62.3 68.6 70.4	260.9 261.6 261.6 261.6 261.6	615.5 614.0 614.0 614.0 614.0 614.6 604.8	566.4 557.8 549.2 540.3 531.6 523.0 514.6 586.3	50.00 44.00 50	-25.9 -27.1 -28.3 -29.9 -31.4 -34.5 -34.5	-20.2 -20.2 -25.4 -25.4 -25.4 -27.4 -28.7	413.7 405.4 397.1 380.9 380.9 373.0 365.3 357.7 350.3	24500.0 24500.0 24500.0 25500.0 26500.0 27500.0 27500.0 27500.0
INUEX OF REFRACTION	SPEED KNOTS	WIND DATA DIRECTION SPEED DEGREES(IN) KNOTS	Y SPEED OF IC SOUND KNOTS	DENSIT GM/CUR METER	REL.HUM. PERCENT	TEMPERATURE REL.HUM. AIR ULWPOINT PERCENT DEGREES CENTIGRADE	TEMI AIR DEGRLES	PRESJURE	GEUNETRIC ALTITUDE MS_ FEET !
DETIC COOMDINATES 32.40175 LAT DEG 106.31232 LON DEG	\$2.4 32.4 106.		23 23)NT 'D	1020130023 LC-37 TABLE 19 CONT'D	7	MST MST	51+37 FEI 0800 HRS	STATION ALTITUDE 4051.37 FEET MSL 12 APR. 62 0800 HRS MST ASCLNSIUM NO. 23	STATION AL 12 APR. 83 ASCLNSIUN

L TEMPERATURE KEL.HUM. AIR DEWPOINT PERCENT DIN DEGREES CENTIGRADE 20.4 3.2 32. 275 20.4 3.6 34. 280 12.67 40. 293 7.9 -2.1 49. 294
RI PERCENT L
RATURE KEL.HUM. DEWPOIRI PERCENT DIRL DEGRL 3.2 32. 275. 6 34. 280. -7 40. 293.

ASCLNSION NO. 151	12 JPR. 52 0930 HRS MOT	STATION ALTITUDE 3969.00 FEET MSL	
TABLE 21	WHITE UNIOUS	1020020151	SIGHTFICANT LEVEL DATA

S2.40043 LAT DEG 106.37033 LON DEG

300000000000000000000000000000000000000	PRESSURE
6357410 6357450 635740 6357450 635740	GEOMETRIC ALTITUDE MSL FEET
ANENHONANON EQENUAN	TEMPE AIR DE®REES
	MPERATUKE DEWPOINT ES CENTIGHALE
	REL.HUM. PERCENT

1.000133	6.20	,0000	0.00	301.4	7.44	0.07	_	1	4.00002
-	•	20701		1 0			1000	- 40	00000
1 000117	000	250.7	7.070	5000	٠ • •	- 24 - O	1 C C	20644	0.00000
)	. 500	0.120	707.0	170,	101.6	1000	Fac. 3	C X 200 0
,	7.7	ا ا	107.0	614	44. 7	ا ا ا	- 1 4 . 7	1 T T T	V1500-0
•	65.7	250.0	629.4	624.1	45.7	-21.6	-12.4	467.6	21000.0
_	65.9	258.4	•	633.9	52.4	-19.1	-11.3	477.0	20500.0
1.000152	4.49	25B.4	•	•	58.9	•	-10.3	480.5	•
_	62.9	258.0	<u>ي</u>	653.2	50.4	-17.3	-8-9	490.1	19500.0
•	61.5	258.7	•	662.6	9.44	17.	-7.5	505.9	0.00061
_	60.0	250.0	637.	672.1	40.7	-17.3	-6•1	515.7	18500.0
1.000160	58.5	2000 000 000 000	636.6	681.7	36.8	-17-3	1 (0	525.8	18000.0
	5 C C C C C C C C C C C C C C C C C C C		041.	601.5	27.0	-17-4	1.5	1000	17500-0
1.000100	200	7000	010.0	701	200	7.77	٠,		70000
1-000166	5000	0 C C C C C C C C C C C C C C C C C C C	0 4 4 0 7 0 4 4 0 7	711.7	N 1 0	11.7.4	- 7	J. 7 . 1	
7.1000.1	F 00.0	259.7	040.9	700.4	21.0	; ;	- f	570.0	1:000.0
1.000175	50.0	204.6	64/•0	9.44.6) () () () () () () () () () (0.01		0.680	•
•	48.8	259.0	648.2	756.0	27.7	-13.5	<u>ن</u> ن	600.8	•
1.000163	49.5	1.66.7	4.649	767.6	28.7	-12.3	£ . (.	612.2	•
1.000185	52.8	202.0	650.5	•	25.6	•	5	623.1	•
1.000192	50.6		650 • 1	795.0	34.4	-9.5	30	635.5	3000.
	49.2	288.9	644.3	814.7	53.2	-5-5	(Ji	647.5	12500.0
1.000208	46.1	294.0	048.3	829.9	61.6	-3.6	3.1	659.8	•
•	40.8	246.7	8.649	841.7	58.0	-3-2	4.3	672.2	11500.0
1.000214	35.8	297.6	651.2	853.8	53.4	-3.2	5.5	684.8	11000.0
1.000216	31.3	297.0	652-7	866.0	48.8	-3.2	6•8	697.7	10500.0
1.000220	28.5	296.1	654-3	877.3	46.2	-2.7	•	710.4	•
1.000223	26.0	1.462	656.0	•	43.9	-2.0	9.6	723.3	•
1.000226	23.1	290.0	657.7	900.1	41.7	-1.4	11.1	730.5	9000.0
1.000230	20.5	284.8	•	911.7	39.5	9	12.5	8.647	0.00¢n
٠	19.6	200.7	1.199	923.6	37.3	1.	14.0	763.5	9.000.0
1.000236	18.9	2/6.6	8.799	935.0	35.0	:	15.4	777.5	7500.0
•	18.2	2/6./	•	947.8	32.8	•	16.9	•	7000.0
1.000243	17.4	2/1.5	666-1	960.2		• 7	18.3	805.8	ი500•0
•	•	280.7	667.7	•	28.4	•9	19.8	820.4	0.000.0
-	•	279.9	•	985.7	26.2	1.0	21.2	835.3	0.0000
_	16.0	272.6	671.0	998.7	24.0	:	22.6	850.5	500 0.0
1.000256	16.9	200.0	672.8	1010.9	u	2.0	24.2	865.4	500•
1.000260	18.0	200-1	74.	1023.3	23.0	3.0	25.7	880·7	•
1.000260	18.1	0 • 0 a 2	674.6	1023.6	23.0	3.0	25.7	881.0	3489.0
XET RACT LON	ZNOIV	DEGREESTINI	X NO LV	ב רי ה		CENTIGRADE	DEGKEES	MILLIUAKS	MSC FEE!
WED CTTO			0400		. ביילרום:		A		٠.
INLEX	¥ >	WIND DAT	SPLEU OF	DENSITY	REL.HUM.	EMPERATURE .	ïEMP	PRESSURE	GEUMETRIC
TOB-37033 LON DEIS	100.			TABLE 22				101	VACENZIONI NO
			6	·		M/	SHI 0560	n	17 APR. 62
COOMUIN	PITTUDE:		2			T MSL		11UDz 39	>
			UATA	UPPER AIK					
			,	•					

STATION ALTITU 12 APR. 82 ASCENSION NV.	ը∈ 39 151	189.00 FEET M' 10936 HRS MST	T MSL	-	UPPER AIK DATA 1026020151 WHITE SANDS TABLE 22 CONT'D	DATA 51 US		υΕΟDET1 32. 166.	DETIC COORDINATES 32.40043 LAT DEG 1G6-37033 LON DEG
GEOMETRIC ALIITUUE MSL FEET	PRESSURE MILLIBARS	TEMP AIR DEGREES	TEMPERATURE . R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY :	SPEED OF SOUND KNOTS	WIND DATA DIRECTION 5 DEGREES(IN) K	TA SPEED KNOTS	INUEX OF REFRACTION
23500•0	422.8	-19.0	-25•1	58.2	579.0	621.3	261.5	61.5	1.000134
24000.0	414.2	-20.4	-23.2	78.2	570.4	619.7	262.6	60.9	1.000133
24500.0	8.404	-21.2	-24.2	76.8	560.7	610.6	262.0		1.000130
25000.9	39/.5	-21.9	-26.3	67.5	550.B	617.7	201.0		1.000127
25500.0	389.4	-22.5	-28.9	55.8	541.0	616.9	201.0	54.3	1.000124
25000.0	381.4	-23.4	-31 • 4	47.3	531.8	615-8	262.5		1.000121
20500.0	373.6	-24.5	-33.4	43.3	523.2	4.419	203.5		1.000119
27000.0	365•8	-25.7	-34 • 8	41.8	514.8	613-0	264.0	61.7	1.000117
27500.0	358-2	-26.8	-35.9	41.5	506.4	611.5	204.3	63.7	1.000115
28000.0	350.7	-28.0	-37.1	41.2	498.2	610-1	264.1	64.1	1.000113
28500.0	\$4.0 th	-29.2	-38-2	40.0	2.064	608•6	263.9	64.5	1.000111
29000.0	330.0	- 30•5	-39.6	40.2	482.3	606.9	263.6	65.1	1.000109
29500.0	326.9	-31.8	-40·9	39.6	474.5	605•3	263.2	65.8	1.000107
30000.0	321.8	-33-1	-42.2	39.0	466.9	603.7			1.000105
30500·0	J15.0	4.48-	-43.6	38.4	459.4	602.0			1.000103
0.00015	300.2	-35.7	6.hh-	37.8	452.1	4.009			1.000101
31500.0	301.6	-37.0	-46.2	37.2	6.ttt	598•7			1.000100
					,				

MANDATURY LEVELS
IN20020151
WHITE SANDS
TABLE 23

STATION ALTITUDE 3989.NO FEET MSL 12 APR. 82 093N HRS MST ASCENSION NO. 151

VEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

300.0	350.0	400.0	0.054	500·n	550.0	600.0	650.0	700.0	750.0	,00.n	გ50•ე	MILLIARS	PRESSURE I
31563.	28000.	24809.	21926.	19275.	16816.	14522.	12393.	10400.	8520.	6727.	5013.	FEET	PRESSURE GEOPOTENTIAL
-37.3	-28.1	-21.7	-14.9	-8.3	-1-6	3.3	2.8	7.0	12.5	17.7	22.6	DEGREES	. TEM
-46.6	-37.2	-25.5	-24.4	-17.6	-17.8	-13.6	-5.0	-3.2	9	•	1.0	CENTIGRADE	ERATURE DEWPOINT
37.	.1.	71.	÷ ÷	47.	26.	28•	56.	٠ 4	39.	31.	24.	1	PERCENT
	1 • 192	262.0	1.692	258.6	258.2	259.0	290.0	297.4	285-1	270.8	272.6	DEGREESITN	DIRECTION AIND
	64.1	59.8	4.09	62.3	54.9	49.0	40.5	30.6	20.6	17.8	10.0	_	, DATA

